

BELOV, S.P.; DEMIN, V.P.; KAZANSKIY, Yu.A.; LOBAKOV, A.P.; POPOV, V.I.

Secondary gamma-radiation coefficients for aluminum, copper, and tungsten. Atom. energ. 19 no.5:452-453 N '65. (MIRA 12:12)

BURAVIKHIN, V.A.; POPOV, V.I.

Use of an EM-7 electron microscope in studying the domain
structure of ferromagnetic films. Izv. vys. ucheb. zav.;
fiz. 8 no.4:116-118 '65. (MIRA 18:12)

1. Irkutskiy gosudarstvennyy pedagogicheskiy institut.
Submitted January 14, 1964.

L 114697-66 ENT(m)/ETC/F/EPF(n)-2/ENG(m)/ENP(t)/ENP(b)/ENA(h) IJP(c) JD/WW/JG/DM
ACC NR: AP6008249 SOURCE CODE: UR/0089/65/019/005/0452/0453

AUTHOR: Belov, S. P.; Demin, V. P.; Kazanskiy, Yu. A.; Popov, V. I.; Lobakov, A. P.

ORG: none

TITLE: Secondary ¹⁹gamma-emission coefficients for ²⁷aluminum, ²⁷copper, and ²⁷tungsten

SOURCE: Atomnaya energiya, v. 19, no. 5, 1965, 452-453

TOPIC TAGS: aluminum, tungsten, copper, gamma flux, neutron flux, gamma quantum, secondary emission, radiation shielding

ABSTRACT: The coefficient of secondary gamma emission-the ratio of total capture-gamma flux with energies above threshold emitted from a shielding surface to the total neutron flux leaving the same surface-was determined for Al, Cu, and W, using the RIZ reactor as the neutron source. Measurements were made for gamma quanta over 5 Mev and for shielding thicknesses of 20 cm for Al, 9.5 to 48 cm for Cu, and 5 to 17 cm for W. [NA] 55, 14

SUB CODE: 18, 20 / SUBM DATE: 10Mar65 / ORIG REF: 004

BVK
Card 1/1

UDC: 539.122

2

L 15389-66 EWT(1)/EWT(m)/EWP(t)/EWP(b) LJP(c) JD/GG

ACC NR: AP5026982

SOURCE CODE: UR/0020/65/164/005/1028/1031

AUTHOR: Buravikhin, V. A.; Popov, V. I.

ORG: Irkutsk State Pedagogical Institute (Irkutskiy gosudarstvennyy pedagogicheskiy institut)

TITLE: The influence of elastic stresses on the structure of the interdomain boundary of ferromagnetic films

SOURCE: AN SSSR. Doklady, v. 164, no.5, 1965, 1028-1031

TOPIC TAGS: ferromagnetic film, magnetic domain boundary, elastic stress

ABSTRACT: This article describes the influence of elastic stresses on the structure of interdomain boundaries of thin ferromagnetic films. Tests were carried out on a film with positive magnetostriction produced by evaporation of fresh NaCl single crystal surfaces in $\sim 10^{-5}$ mm Hg vacuum from a 25% Fe-75% Ni alloy under a 100 Oe field in the direction of the films. A special device was used for electron microscopic observation

CARD 1/2

UDC: 538.245

L 15389-66

ACC NR: AP5026982

of samples under stress. A detailed analysis of the experimental results shows that they are in good agreement with the theoretical predictions by S. Middelhoek (J. Appl. Phys., 34, no. 4 (Pt. 2), 1054, 1963). The paper was presented by Academician G. V. Kurdyumov 22 Feb 65. Orig. art. has: 4 figures.

SUB CODE: 20/ SUBM DATE: 17Feb65/ ORIG REF: 004/ OTH REF: 008

TS
CARD 2/2

L 15219-66 EMT(1)/EMP(m)/ENA(d)/ES(r)-3 CM
ACC NR: AP5026046

SOURCE CODE: UR/0293/65/003/005/0677/0683

AUTHORS: Popov, V. I.; Rutkovskiy, V. Yu.

ORG: none

TITLE: Study of plane flexural oscillations of a gravitationally stable satellite-stabilizer system

SOURCE: Kosmicheskiye issledovaniya, v. 3, no. 5, 1965, 677-683

TOPIC TAGS: oscillation, artificial satellite, spacecraft stabilizer, vibration damping, Lagrange equation, motion equation, differential equation system

ABSTRACT: Equations of the plane flexural oscillations of a satellite-stabilizer system are derived in order to study the orbital motion of a satellite with exposed rods. Figure 1 shows the kinematics of motion of the satellite-stabilizer system. The differential equations of motion of the system are:

$$\left[I_0 + mna^2 + m\dot{n}^2 + 2al \sum_{i=1}^n \cos \psi_i \right] \ddot{\varphi} - 2mal\dot{\varphi} \sum_{i=1}^n \sin \psi_i \dot{\psi}_i -$$

$$- m \sum_{i=1}^n (l^2 + al \cos \psi_i) \ddot{\psi}_i + mal \sum_{i=1}^n \sin \psi_i \dot{\psi}_i^2 = -M_0,$$

$$ml^2 \ddot{\psi}_i - m(l^2 + al \cos \psi_i) \ddot{\varphi} + mal \dot{\varphi}^2 \sin \psi_i + \frac{3EI}{l} \psi_i = -M_0,$$

(i = 1, 2, ..., n),

UDC: 629.191.531.352

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L 15219-66

ACC NR: AP5026046

where I_c is the moment of inertia of the satellite, E is modulus of elasticity, $M\psi_1$ the control moment of the predamping system, $M\psi_1$ the moment of internal friction

in the material of the i -th rod, l is rod length, and m is the mass of the weights. A study of perturbations after deployment of the rods shows that the deployment should be done radially, so as not to create perturbing moments. The system of differential equations of motion is studied analytically after employing certain simplifications. Comparison of the results of numerical calculation with the analytic solution of the simplified equations showed that the oscillation frequencies and amplitudes of the satellite and a stabilizer agreed for all practical purposes. Orig. art. has: 1 diagram and 7 formulas.

SUB CODE: 22/SUBM DATE: 19Feb65/ SOV REF: 007/ OTH REF: 002

TS
Card 3/3

POPOV, V.I., kand.fiz.-matem.nauk

Study of nuclear structure by the use of neutrons; conference
in Belgium. Vest. AN SSSR 35 no.12:51-53 D '65. (MIRA 19:1)

POPOV, V.I.; MAKAROVA, S.D.; STANKEVICH, Yu.V.; FILIPPOV, A.A.

[Handbook on the determination of sedimentary facies complexes
and the methods of facies-paleogeographic mapping.] *Rukovodstvo
po poredeleniiu osadochnykh fatsial'nykh kompleksov i metodika
fatsial'no-paleogeograficheskogo kartorovaniia. Leningrad, Gost-
optekizdat, 1963. 713 p. (Tashkent. Universitet. Problemaia
laboratoriia osadochnykh formatsii i osadochnykh rud. Trudy, no.2).*
(MIRA 18:7)

BURAVIKHIN, V.A.; POPOV, V.I.

Effect of elastic stresses on the structure of interdomain boundaries
in ferromagnetic films. Dokl. AN SSSR 164 no.5:1028-1031 5 '65.
(MIRA 18:10)

1. Irkutskiy gosudarstvennyy pedagogicheskiy institut. Submitted
February 22, 1965.

L 21729-65 Pa-4/Pb-4 AMD

ACCESSION NR: AR4045752

0299/64/000/013/M013/M013

SOURCE: Ref. zh. Biologiya. Svochnyy t. n. Abs. 13M82

AUTHOR: Popov, V. I.; Mezdatnyy, H. M.

TITLE: Effect of certain drugs and irradiation on transplant
immunity

CITED SOURCE: Sb. 3 Vses. konferentsiy po peresadke tkaney i
organov, 1963. Yerevan, 1963, 75-76

TOPIC TAGS: rabbit, transplant immunity, skin, homotransplantation,
viability, antimetabolite, antipyretic, antitumor drug, irradiation
effect, cortisone, mercaptopurine

TRANSLATION: The effect of different drugs and X-irradiation on
transplant immunity was investigated in 291 rabbits. After skin
homotransplantation, the rabbits were administered various
antimetabolites, alkylizing substances, and antipyretics or were
exposed to X-irradiation. Transplant viability was increased
twofold with mercaptopurine. A-metopterin, sulfacyl, paraaminosalicy-

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L 21729-65

ACCESSION NR: AR4045752

lic acid, and dehydrothymine did not affect prolongation of transplant viability. Of the antitumor drugs, only dopamine and TIO TEF in moderate doses prolonged homotransplant life by $1\frac{1}{2}$ times and derganol increased homotransplant viability threefold. Sarcolysin, chlorambucyl, and novocembichin proved to be ineffective. Toxic doses of these preparations also did not increase homotransplant viability. Cortisone increased homotransplant viability by three times. The antipyretics, salicylic sodium and butadion (a neuroplegic mixture), did not inhibit immunity development. Total body X-irradiation contributed to prolongation of homotransplant viability by $1\frac{1}{2}$ -2 times only with sublethal and lethal doses (1000 r), and by 5 times when combined with cortisone.

SUB CODE: LS

ENCL: 00

Card 2/2

L 19742-65 EWT(d)/EPF(n)-2/ENP(1) Po-l/Pq-l/Pg-l/Pae-2/Pu-l/Pk-l/Pl-l IJP(c)/
 AEDC(a)/SSD/ASD(a)-5/ASD(s)/AFMDC/AFETR/AFTC(p)/RAEM(a)/RAEM(d)/ESD(dp) WW/MLK/BC
 S/0000/64/000/00/0111/01.3
 ACCESSION NR: AT4047747

AUTHOR: Popov, V. I.

TITLE: Investigation of a relay system that has time-dependent control response and control-law switching

SC JRCE: AN SSSR. Institut avtomatiki i telemekhaniki. Teoriya i primeneniye avtomaticheskikh sistem (Theory and application of automatic systems).
 Moscow, Izd-vo Nauka, 1964, :11-118

TOPIC TAGS: automatic control, automatic control design, automatic control system, automatic control theory

ABSTRACT: A relay-type automatic-control system is considered in which large disturbances are handled by a strong control response (varying according to a linear, square, exponential or other law) while small disturbances are handled by a constant control response. A switching device changes the response law and

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L 19742-65

ACCESSION NR: AT4047747

introduces an internal feedback to compensate for the controller delay. At variance with a Flügge-Lotz opinion, the article shows that the delay compensation is expedient if an incomplete compensation is provided; in this case, the switching frequency remains tolerably low, and the necessity for cutting down the controller delay does not arise. Equations of the system motion are set up, and the dynamic behavior (switching lines, stability region, sliding regime) of the system is investigated. Orig. art. has: 6 figures and 22 formulas.

ASSOCIATION: none

SUBMITTED: 06Jun64

ENCL: 00

SUB CODE: IE

NO REF SOV: 004

OTHER: 001

Cont. 2/2

POPOV, V.I.

Nuclear theory of the development of the earth's crust. Trudy Len.
ob-va est. 74 no. 1:32-35 '63. (MIRA 17:9)

ZHURAVLEV, V.P.; KOPOV, V.K.

Calculation of the absorbing effect of evaporation in the interpretation of logging geoelectric data. Moscow. 1970.
geofiz. no. 49:101-117 1p (USSR 1707)

POPOV, V.M.

Conference on the architectural engineering design and planning
of chemical enterprises. Khim. prom. no.7:516 J1 '61.

(MIRA 14:7)

(Chemical plants---Congresses)

POPOV, V.K.

Utilization of the method of dimensional designing. Khim.
prom. no.9:72 S '61. (MIRA 15:1)
(Chemical plants)

KUDINTSEVA, G.A. (Moskva); POPOV, V.K. (Moskva)

Procedure for the treatment of lanthanum boride by a jet of
plasma. Porosh.met. 2 no.4:56-58 J1-Ag '62. (MIRA 15:8)
(Lanthanum boride) (Plasma (Ionized gases))

L 8872-65 EWT(a)/EWT(r)/EWP(k)/EWP(h)/EWP(q)/EWP(b) Pf-4 AEDC(b)/ASD(p)-3/
AS(mp)-2/AFWL/ASD(m)-3/SSD/ESD(gs) JD
ACCESSION NR: AT4012874 S/3060/63/000/000/0161/0166

AUTHOR: Popov, V. K.; Kalinychev, M. N.

TITLE: Ion beam drilling of holes 18

SOURCE: AN SSSR. Tsentr. n.-i. lab. elektr. obrabotki metallov. Elektroiskrovaya obrabotka metallov. Moscow, 1963, 161-166

TOPIC TAGS: electric spark drilling, ion beam drilling, ion beam, ion gun, electrospark machining 14

ABSTRACT: While the electric spark method is widely used to machine holes of less than 100 mm in diameter, it is difficult to obtain diameters of less than 30 microns and impossible to obtain diameters below 25 microns due to the lack of rigidity in the thin wire which serves as the electrode. The chemical etching method is also inadvisable for obtaining holes with diameters of 20-30 microns, due to etching of the machined part itself, and this technique cannot be used with thick pieces. The authors therefore discuss the use of an accurately focused beam of ions directed at the metal surface to drill holes. The operating principle and energy characteristics of the ion gun are discussed (see Fig. 1 in the Enclosure). This is a twin-electrode optical system in which the anode has a cavity serving as the ion source and the cathode has a circular opening for the emergence of the ions.

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L 8872-65

ACCESSION NR: AT4012874

0

The piece to be machined is kept at the same potential as the cathode and is flush with its surface. The gas discharge principle, which is valid only in a specific pressure range and at high potential differences, is used. Since the interelectrode voltage is 0.5-15 kv and the strong electrical field penetrates deep within the anode cavity, the ions are forced out of the cavity, accelerated and focused into a very narrow conical beam with the focal point lying above the cathode. A small, evenly formed, conical depression appears on the part being machined, with a glis-
tening inner surface corresponding to a surface finish of 9-10. Curves are presented relating voltage and current, as well as the power of the ion beam and pressure. The authors point out that the same working current can be achieved at various chamber pressures, but that at low vacuum the voltage is low and hence the power is negligible. As the vacuum is increased, the accelerating voltage rises and there is an increase in the kinetic energy of the ions, resulting in a more rapid removal of material from the machined part. At a vacuum of 0.05 mm Hg, the power of the beam can be increased to 10-13 watts. The rate of metal removal depends on the kinetic energy of the ions and the amplitude of the ion current; obviously, more rapid drilling can be achieved by an increase in voltage and current, but this also results in certain negative factors such as the production of hard X-rays and impairment of focusing. In practice, the voltage drop on the gun should not exceed 15 kv and the current should not exceed 1000 microamperes. Some of the other factors affecting the precision and surface finish of the holes are discussed.

Card 2/4

L 8872-65

ACCESSION NR: AT4012874

The structure of the parent material, for example, plays a decisive role. The authors conclude that primary attention should be given to increasing productivity and providing automatic control of the hole diameter. The method provides vacuum finish of the parent metal and eliminates the need for subsequent chemical treatment. In addition, it is applicable to both metallic and non-metallic materials. The principal disadvantage is its low productivity and the high degree of conicity of the holes. Orig. art. has: 1 table, 2 figures and 3 graphs.

ASSOCIATION: Tsentral'naya n.-i. laboratoriya elektricheskoy obrabotki metallov
AN SSSR (Central Scientific Research Laboratory for the Electrical Processing of
Metals)

SUBMITTED: 00

ENCL: 01

SUB CODE: MK, OP

NO REF SOV: 005

OTHER: 000

Card 3/4

POPOV, V. K., Cand Tech Sci -- (diss) "Kinematic and dynamic analysis
of the operation of mechanisms of ~~the~~ idle-running ~~the~~ automatic lathes."
Mos, 1957. 11 pp (Min of Higher Education USSR, Mos Order of Lenin and
Order of Labor Red Banner Higher Tech School im Bauman (N. E.), 100 copies
(KL, 15-58, 115)

- 43 -

ALADATOV, G.M.; BEDCHER, A.Z.; GROSSCEYM, V.A.; POPOV, V.K.

Practice of complex studying thinly alternating flysch-type reservoir
rocks in the western Kuban. Trudy KF VNII no.1:202-221 '59.

(Kuban—Oil sands—Permeability) (MIRA 16:9)

POPOV, V.K.; VALEYEVA, N.N.; RADCHENKO, T.G.

Micrologging is an efficient method of gas prospecting. Gaz.
prom. 4 no.10:10-12 0 '59. (MIRA 13:2)
(Krasnodar Territory--Gas, Natural)
(Krasnodar Territory--Prospecting)

POPOV, V.K.

Some problems concerning the use of core samples and applied geophysics
in estimating reservoir characteristics of strata. Trudy VNIIG.no.29:
180-194 '60. (MIRA 13:10)

1. Krasnodarneftegeofizika.
(Leningradskaya region--Gas well logging)

POPOV, V.K.; NEMTSE-PETROVSKIY, V.M.

Calculating the lithological factor in determining the gas-saturation coefficient of rocks from the data of applied geophysics.

Razved. i prom. geofiz. no.38:107-111 '60. (MIRA 14:3)

(Krasnodar Territory—Electric prospecting)

(Gas, Natural)

POPOV, V.K.; DVORKIN, Z.P.

Determination of the factor of porosity of reservoir rocks based on
SP curves. Geol. nefti i gaza 4 no.5:51-55 My '60. (MIRA 13:9)

1. Trest "Krasnodarneftegeofizika."
(Gas, Natural) (Porosity)

DAKHNOV, V.N., doktor geol.-miner. nauk; KHOLIN, A.I., kand. geol.-
 miner.nauk; PESTRIKOV, A.S.; GALUZO, Yu.V.; APRIKYAN, AN.;
 YUDKEVICH, R.V.; POPOV, V.K.; POZIN, L.Z.; LARIONOV, V.V.;
 VENDEL'SHTEYN, B.Yu.; GORBUNOVA, V.I.; DZYURAK, M.D.; YEVDOKIMOVA,
 V.A.; ZHOKHOVA, R.G.; LATYSHEVA, M.G.; MAREN'KO, N.N.; MANCHEVA,
 N.V.; MOROZOVICH, Ya.R.; OREKHOVSKAYA, Ye.P.; POKLONOV, M.S.;
 ROMANOVA, T.F.; SEVOST'YANOV, M.M.; TANASEVICH, N.I.; FARMANOVA,
 N.V.; FEDOROVICH, G.P.; SHCHERBININ, V.A.; ELLANSKIY, M.M.;
 YANUSH, Ye.F.; YUNGANS, S.M., ved. red.; YAKOVLEVA, Z.I., tekhn.
 red.

[Using methods of field geophysics in studying gas-bearing re-
 servoirs]Primenenie metodov promyslovoi geofiziki pri izuchenii ga-
 zonosnykh kollektorov. Moskva, Gostoptekhizdat, 1962. 279 p.
 (MIRA 16:2)

(Gas, Natural--Geology)
 (Prospecting--Geophysical methods)

IZOTOVA, T.S.; MICHKASSKAYA, N.A.; POPOV, V.K.

Some data on Pre-Albian reservoir rocks in the northern regions
of Krasnodar Territory. Izv. vya. ucheb. zav.; geol. i razv.
6 no.9:47-56 S '63. (MIRA 17:10)

1. Krasnodarskiy filial Vsesoyuznogo nauchno-issledovatel'skogo
instituta geofizicheskikh metodov razvedki i L'vovskiy
gosudarstvennyy universitet im. IV. Franko.

POPOV, V.K.; SILKINA, D.N.; ZHURAVLEV, V.P.

Determining the thickness of thin beds from the data of
electric logging. Prikl. geofiz. no.40:198-209 '64

TOPICAL NAME: AZERBAIDZHAN, USSR.

Physical properties of sedimentary rocks in western Ciscaucasia.
Neftegaz. geol. i geofiz. no.11:32-36 '65.

(MIRA 18:12)

1. Krasnodarskiy filial Nauchno-issledovatel'skoye
Instituta geofizicheskikh metodov razvedki.

ACC NR: AP7001082

(A,N) SOURCE CODE: UR/0439/66/045/003/0430/0435

AUTHOR: Berendyayeva, E. L.; Bibikov, D. I.; Rapoport, L. P.; Popov, V. K.; Varivodina, T. A.

ORG: Kirghiz Anti plague Station, Frunze (Kirgizskaya protivochumnaya stantsiya); Central Asian Anti plague Station, Alma-Ata (Sredneaziatskiy protivochumnyy institut)

TITLE: Experience of studying contacts within a population of Altai marmots by means of radioactive tagging

SOURCE: Zoologicheskiy zhurnal, v. 45, no. 3, 1966, 430-435

TOPIC TAGS: parasitology, animal parasite, marmot, flea, BIOLOGIC
ECOLOGIC

ABSTRACT: Marmots (*Marmota marmota baibacina*) collected in Central Tyan'-Shan' in the summer of 1962 and 1963 were tagged with subcutaneous injections of S^{35} or P^{32} (in doses of 1 μ cu or 0.5 μ cu, respectively, per kg of weight). Contacts among marmots were traced by counting tagged fleas from untagged animals after 30—42 days. In one collection, 118 out of 140 fleas collected had bitten tagged marmots. Fleas tagged with a surface application of the isotopes were also used. Some were found 109 m from their release points after 23 days, and a maximum of 500 m away after 42 days. The study showed that the degree

Card 1/2

UDC: 599.322.2:578.084.2:611-018-0.88.91

ACC NR: AP6034767

SOURCE CODE: UR/0407/66/000/001/0088/0093

AUTHOR: Popov, V. K. (Moscow); Popovich, B. A. (Moscow)

ORG: none

TITLE: Unit for zone refining refractory metals

SOURCE: Elektronnaya obrabotka materialov, no. 1, 1966, 88-93

TOPIC TAGS: refractory metal, ~~zone refining~~, metal zone refining, ~~melting~~
furnace, electron beam ~~furnace~~ melting

ABSTRACT: To improve the service life of the cathode and to eliminate voltage and current fluctuations, defocusing of the electron beam, and contamination of the refined metal, a new unit for zone refining of metals has been developed. It is mainly intended for growing monocrystals of tungsten, tantalum, molybdenum, niobium and other refractory metals. The basic feature of the unit is its heat source, which consists of two guns each generating a narrow electron beam which easily melts a metal bar intended for refining. The cathodes of the guns are located about 500 mm from the melted zone and are reliably protected from molten metal vapors, light irradiation, and ion bombardment. Consequently, the service life of a lanthanum hexaboride cathode is about 250—300 hr., which is much longer than that of ring-shaped tungsten cathodes used in regular units. Magnetic focusing lenses permit accurate adjustment of electron-beam power and the size of the hot and molten zones. Changes in the shape of the bar during the formation of the liquid zone do not

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ACC NR: AP6034767

cause defocusing of the electron beam. Thus, bars of various sizes can be melted with the same electrooptical systems. Finally, with the new system the material being refined is not contaminated by material of the cathode. Monocrystals of molybdenum, 14, 20 and 27 mm in diameter, were grown in the unit at an accelerating voltage of 12,000 v, and a total current of both guns of 0.7—1.4 a. Bars of molybdenum were outgassed at 2500K for 15—20 min; then the first pass was made at 9 mm/min and the next two were made at 7 mm/min. Orig. art. has: 3 figures.

SUB CODE: 13,11,10/ SUBM DATE: none/ ORIG REF: 005/

Card 2/2

L 13602-66

EWI(d)/EWI(m)/ETC(F)/ENG(m)/EPF(n)-2/EPF(V)/EWI(V)

EWI(b)/EWI(i) IJP(c)

SOURCE CODE: UR/0286/65/000/022/0062/0062

ACC NR: AP6000997 JD/JG

AUTHORS: Popov, V. K.; Popovich, B. A.; Kalinychev, M. N.

ORG: none

TITLE: Apparatus for observing the melting process of metals and alloys in a vacuum furnace. Class 40, No. 176425

SOURCE: ^{44,55}Byulleten' izobreteniy i tovarnykh znakov, no. 22, 1965, 62

TOPIC TAGS: metallurgic process, metallurgy, metal melting, refractory metal, metallurgic furnace

ABSTRACT: This Author Certificate presents an apparatus for observing the melting process of refractory metals and alloys in a vacuum furnace. The apparatus has the form of a hollow casing (see Fig. 1). To prevent the fouling of the window glass by the products of melting, a cylindrical drum pierced by cutouts is mounted in the opening of the casing. The cutouts run perpendicularly to the drum axis.

UDC: 669.042

Card 1/2

L 13602-66

ACC NR: AP6000997

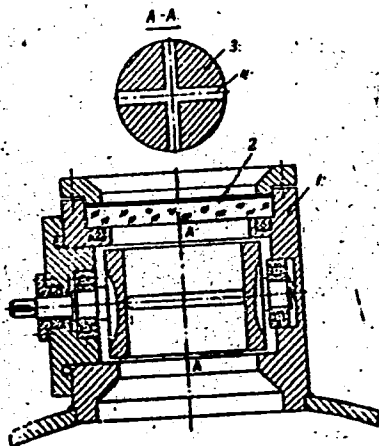


Fig. 1. 1 - Metallic hollow casing;
2 - window;
3 - cylindrical drum;
4 - cutouts.

Orig. art. has: 1 figure.

SUB CODE: 13/ SUBM DATE: 12May64

Card 2/2

ANDRANIEV, V.P.: POVOI, V. 1964 1964

Determining the resistance of the agents of mass intelligence.
Rezuei. geofiz. no. 4512-1. 2. 1964. (MIRA 1964)

POPOV, V.K.

Combined geophysical investigations of wells in western Ciscaucasia. Geol. nefti i gaza 7 no.11:42-47 N '63. (MIRA 17:8)

1. Krasnodarskiy filial Vsesoyuznogo nauchno-issledovatel'skogo instituta geofizicheskikh metodov razvedki.

POPOV, V.L., kand.tekhn.nauk; KRASHKIN, I.S.; GRITSAYUK, B.I., inzh.

Protecting intersectional gaps in powered supports. Bezop.
truda v prom. 6 no.12:24-27 D '62. (MIRA 15:12)

1. Podmoskovnyy nauchno-issledovatel'skiy ugol'nyy institut.
(Mine timbering)

POPOV, V.L.

Expounding the meaning of a derivative in a secondary
school. Uch. zap. Orsk. gos. ped. inst. no.3:11-18 '62.
(MIRA 16:8)

POPOV, V.L., kand.tekhn.nauk

Calculating basic tension in branches and the initial tension
in one-loop chain transmissions. Konstr.i tekhn.mash. no.1:82-
94 '61. (MIRA 15:2)

(Chains)

POPOV, V L.

Sequences and limits as taught at school. Uch. zap. Grsk. gos. ped.
inst. no. 5:150-183 '63. (MIRA 18:3)

POPOV, Valeriy L'vovich; GELESKUL, M.N., otv. red.; SMIRENSKIY,
M.M., red.izd-va; KONDRAT'YEVA, M.A., tekhn. red.; BOLDYREVA,
Z.A., tekhn. red.

[Rock pressure and mine timbering]Gornoe davlenie i rudnich-
naia krep'. Moskva, Gosgortekhnizdat, 1962. 298 p.
(MIRA 15:12)

(Rock pressure)

(Mine timbering)

POPOV, U.L.

PLATE I BOOK EXPLOITATION SOV/4266

Progressivnaya tekhnologiya i vysokoproduktivnye in-
strumenty opytnykh i proizvodnykh Kirov (Advanced Processing
and Highly Productive Tools) Kirov, Mashin, 1960.
Turbogeneratorskiy plant (Turbine Generator Plant) Kirov, Mashin, 1960.
135 p. 5,500 copies printed.

Revizori, P. Ye. Duduk Engineer; Ed.: M. S. Zhukovskiy, Chief
Ed. (Southern Division, Mashin); V. K. Saryuk, Engineer.
PURPOSE: This booklet is intended for technical personnel
and innovators.

COVERAGE: The booklet discusses the experience of innovators
and technical personnel in introducing advanced processes
and machine tools at the Kirov Machine Plant (Kirov
Turbine Generator Plant) for the manufacture of steam tur-
bine generators. It describes the experience in introducing
new tools for tapping coarse threads, processing steam tur-
bine blades. Experience in introducing artificial in-
crease for interference fits and in mastering the
feature of welded steam-turbine rotors is described. The

Card 1/3

Advanced Processing (Cont.)

SOV/4266

booklet covers the advances in technology developed and
introduced at the factory in the last few years. No
personalities are mentioned. No references are given.

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Advanced Processing (Cont.)

SOV/4266

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Card 3/3

VR/TH/60
11-14-60

AVAILABLE: Library of Congress

Popov, V. L.
Distr: 482b

1443. Popov, V. L. The influence of the centrifugal forces of inertia on the tension of the links in a working chain transmission (in Russian), O. Tsypnykh peredachakh., Moscow, Mashgiz, 1955, 64-76; Ref. Zh. Mekh. 1956, Rev. 5771.

Formulas are evolved to show the tension on the chain due to centrifugal forces in the case of even distribution of the mass over the length of the chain and uninterrupted engagement of the chain with the sprocket (flexible belt) and in the case of the spacing of the chain on the sprocket in view of the presence of a rectilinear polygon and the necessity for the periodical engagement of its links with the sprocket. In the second case the mass of the chain is presumed to be distributed over its links.

The relative difference is shown in the magnitude of the tension obtained in these two cases, and if the angular pitch is less than 20° then the relative difference is less than 1.5%.

It is shown that the magnitudes of the centrifugal tension in the links of the chain do not depend on the transmissional relationship of the transmission, but that centrifugal tensions, originating from sagging of the chain, are evaluated in the same way as in the section surrounding the sprocket.

Experimental determinations are described in which the magnitude of centrifugal tensions, on a special stand of statistical

2
1

1/2

BOL'SHAKOV, Valeriy Alekseyevich, kand. tekhn. nauk; GOMELKIN,
Anatoliy Vasil'yevich, kand. tekhn. nauk, dots.;
KONSTANTINOV, Yuriy Mikhaylovich, inzh.; KRASNOSELY,
Mikhail Sergeyevich, kand. tekhn. nauk, dots.; KOPCOV,
Vladimir Nikolayevich, kand. tekhn. nauk, dots.; Prini-
mal' uchastiye DENISENKO, i.D., inzh.; VISHNEVYY, V.V.,
red.

[Collection of problems in hydraulics] Sbornik zadach po
gidravlike. [By] V.A. Bol'shakov i dr. Kiev, Budivelnik,
1964. 291 p. MIRA 17 9

POPOV, V. L.

Chardzhou-Kungrad. [Chardzhou-Kungrad railway]. (S. doklady po trasse).
Tashkent, Uzgiz, 1947. 31 p.

SO: Soviet Transportation and Communications. A Bibliography. Library of Congress
Reference Department, 1952, Washington, Unclassified

POPOV, V.L., kand.tekhn.nauk

Manifestations of rock pressure studied on the yielding of
"Mosbass" type supports. Ugol' 35 no.2:39-42 F '60.
(MIRA 13:5)

(Moscow Basin--Subsidences (Earth movements))
(Mine timbering)

POPOV, V. L.

Tri magistrali. [Three railway trunk lines]. (Sovetskaja Azia, 1930, no. 3-4,
p. 28-44). .

DLC: H8.S4 Slav.

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress
Reference Department, Washington, 1952, Unclassified.

POPOV, V. L.

Perspektivy i proekty transporta Sibiri. Prospects and projects for transport in Siberia. (Severnaia Azia, 1928, no. 5-6, p. 5-25).

DLC: H8.S4 Slav.

SO: Soviet Transportation and Communications. A Bibliography. Library of Congress, Reference Department, Washington, 1952, Unclassified.

PA 233T54

POPOV, V. L.

USSR/Metallurgy - Foundry, Equipment, Jul 52
Processes

"Fabrication of Large Cores," V.L. Popov, N. T.
Ryabov, Engineers

"Litey Proizvod" No 7, pp 6-8

Describes procedure of making core for casting
of 31,000-kg lower portion of steam cylinder.
Core, 3,600 mm high with max diam of 3,044 mm and
weighing approximately 30 tons, was made in shape
of hollow cylinder out of red bricks reinforced
with cast-iron rings and faced with layer of spe-
cially prepd sand mixt. Twisted strands of straw
were inserted between bricks to secure gas perme-
ability of brickwork.

233T54

POPOV, V.L.

Technology of rapid production of casting molds. Lit.proizv. no.7:7-10
Jl '53. (MLBA 6:7)
(Patternmaking)

POPOV, V. L.

POPOV, V. L. - "Investigation of the load on a chain in a working chain drive." Moscow, 1955. His Higher Education USSR. Moscow Machine-Tool and Tool Inst. I. V. Stalin. (Dissertations for degree of Candidate of Technical Sciences.)

SO: Knishnaya letenits', No 48. 20 November 1955. Moscow.

POPOV, Valeriy L'vovich; SHOROKHOVA, A.V., otv.red.; GALANOVA, V.V.,
tekhn.red.

[New powered supports] Novaya mekhanizirovannaya krep'.
Moskva, Gos.nauchno-tekhn.isd-vo lit-ry po gornomu delu,
1960. 95 p. (MIRA 13:11)
(Mine timbering)

POPOV, V.L.

Investigation of bituminous shales as a binder in coal briquetting.
Trudy IGI 12:115-123 '61. (MIRA 14:3)
(Briquets (Fuel)) (Bituminous materials)

POPOV, V. L.

Dissertation: "Some Questions on Working the Deep-Sloping Thin Beds of the Donets Coal Field." Cand Tech Sci, Moscow Mining Inst imeni I. V. Stalin, 17 Jun 54. (Vechernyaya Moskva, Moscow, 8 Jun 54)

SO: SUM 318, 23 Dec 1954

KHOTUNTSEV, L.L.; POPOV, V.L.; VOLKOV, G.M.

New types of binding material for the briquetting of fine coals.
Ugol' 35 no. 4:51-55 Ap '60. (MIRA 14:4)
(Briquets (Fuel)) (Binding materials)

L 45077-66

ACC NR: AP6014743 (N) SOURCE CODE: UR/0229/65/000/011/0065/0068

AUTHOR: Popov, V. M.

ORG: none

TITLE: Determination of hoisting capacity of floating dry docks for ocean-going vessels

SOURCE: Sudostroyeniye, no. 11, 1965, 65-68

TOPIC TAGS: floating dry dock, shipbuilding engineering, cargo ship, merchant vessel data, hoisting

ABSTRACT: The author discusses problems in determining the hoisting capacity of floating dry docks for ocean-going transport vessels. The dependence of length, width, and diving depth of floating dry docks on their hoisting capacity is analyzed. The dependence of length, width, and draft of transport vessels on their empty weight is considered. The dependence between the empty weight of transport vessels and the hoisting capacity of floating dry docks is examined. Orig. art. has: 7 figures and 8 formulas. [NT]

SUB CODE: 13/ SUBM DATE: none/ OTH REF: 009/

Card 1/1 b1g

UDC: 629.128.72

LEBEDEV, V.V.; POPOV, V.M.

All-Union Conference on the Coordination of Scientific Research on the Use of Fuel Gases in the National Economy. Gaz. prom. 4 no.9:54 S '59. (MIRA 12:11)
(Gas as fuel--Congresses)

S/030/60/000/05/44/056
B015/B008

AUTHORS: Popov, V. M., Candidate of Technical Sciences,
Semenov, L. V., Candidate of Economic Sciences

TITLE: The Utilization of Fuel Gases

PERIODICAL: Vestnik Akademii nauk SSSR, 1960, No. 5, pp. 110-112

TEXT: An All-Union Conference was held in Moscow from February 23 to 25, which was convened by the Nauchnyy sovet po probleme "Goryuchiye gazy" (Scientific Council for the Problem "Fuel Gases") and dealt with the coordination of the scientific activities for the utilization of fuel gases in the national economy. N. V. Lavrov, Institut goryuchikh iskopayemykh Akademii nauk SSSR (Institute of Mineral Fuels of the Academy of Sciences USSR) elaborated a perspective scheme of the oxidizing pyrolysis of gaseous paraffin hydrocarbons in unsaturated hydrocarbons. V. F. Kopytov, Institut ispol'zovaniya gaza v kommunal'nom khozyaystve i promyshlennosti Akademii nauk Ukrainskoy SSR (Institute of Utilization of Gas in the Municipal Economy and Industry of the Academy of Sciences of the Ukrainskaya SSR) pointed out the importance of securing a suitable speed and direction of

Card 1/2

POPOV, V.M. ; SEMENOV, L.V.

Use of natural gas in the cement industry. Gaz.prom. 5 no.8:50-51
Ag '60. (MIRA 13:10)
(Gas, Natural) (Cement industries)

S/030/60/000/009/015/016
B021/B056

AUTHORS: Semenov, L. V., Popov, V. M.

TITLE: Rational Combustion of Natural Gas

PERIODICAL: Vestnik Akademii nauk SSSR, 1960, No. 9, pp. 121 - 122

TEXT: A scientific-technical Conference was held at Leningrad from June 27 to July 2, 1960, which was organized by the Nauchnyy sovet po probleme "Goryuchiye gazy" Akademii nauk SSSR (Scientific Council for the Problem of "Combustible Gases" of the Academy of Sciences, USSR) and the Nauchno-tekhnicheskoye obshchestvo energeticheskoy promyshlennosti (Scientific Technological Society of the Power Industry). The Conference discussed problems connected with the theory and calculation of burners and dealt with results obtained by investigating the combustion of natural gas in various industrial furnaces and plants. Most of the works were submitted by the Institut ispol'zovaniya gazov v kommunal'nom khozyaystve i promyshlennosti Akademii nauk USSR (Institute for the Utilization of Gases in the Communal Economy and Industry of the Academy of Sciences, UkrSSR). Moreover, the following reports were delivered:

Card 1/2

Rational Combustion of Natural Gas

S/030/60/000/009/015/016
B021/B056

A. V. Markovskiy, on various burners designed by this Institute;
A. Ye. Yerinov, on the method of utilizing natural gas for the non-oxidizing heating of metal in forging and heating furnaces; V.P. Mikhayev
and V. P. Lazarev, Scientific Collaborators of the Kuybyshevskiy industrial'nyy institut (Kuybyshev Industrial Institute) on problems of the theory and calculation of injector burners and experimental results obtained with the injection gas burners designed at this Institute. The Conference promoted reciprocal information concerning work carried out and the development of collaboration between scientific and special research institutes, as well as the exchange of experience among plants.

Card 2/2

LAVROV, Nikolay Vladimirovich, prof., akademik; AGIBALOV, Aleksandr Ivanovich [deceased]; POPOV, V.M., kand.tekhn.nauk, nauchnyy red.; KOMAROVA, T.F., red.; ATROSHCHENKO, L.Ye., tekhn.red.

[Fuel resources of the U.S.S.R. in the seven-year plan]
Toplivnaya baza SSSR v semiletke. Moskva, Izd-vo "Znanie,"
1961. 31 p. (Vsesoyuznoe obshchestvo po rasprostraneniю
politicheskikh i nauchnykh znaniy. Ser.3, Ekonomika, no.3)

1. AN UzSSR (for Lavrov).
(Fuel)

LAVROV, N.V.; POPOV, V.M.; AGIBALOV, A.I. [deceased]

Prospects for the development of the gas industry in the U.S.S.R.
Trudy IGI 16:3-6 '61. (MIRA 16:7)
(Gas, Natural)

POPOV, V.M.; DAVYDOV, V.P.; SEMENOV, L.V.

Use of liquefied gases abroad. Trudy IGI 16:114-123 '61.

{MIRA 16:7}

(Liquefied petroleum gas)

DAVIDOV, V.P.; POPOV, V.M.; SEMENOV, L.V.

Prospects for the development of the industry of liquefied gases
in the U.S.S.R. Trudy IGI 16:124-131 '61. (MIRA 16:7)
(Liquefied petroleum gas)

ISTOMIN, L.I.; POPOV, V.M.

Problems of districting in the utilization of fuel as exemplified by
the European part of the U.S.S.R. Trudy IGI 16:439-451 '61.
(MIRA 16:7)

(Fuel)

ISTOMIN, L.I.; POPOV, V.M.; SEMENOV, L.V.

Economic effectiveness of the use of gaseous fuel in electric power
plants. Trudy IGI 16:452-457 '61. (MIRA 16:7)
(Electric power plants—Fuel consumption) (Gas as fuel)

POPOV, V.M.; ISTOMIN, L.I.; SOLOV'YEV, N.A. .

Technical and economic effectiveness of the conversion of a foundry
boiler room from solid to gaseous fuel. Trudy IGI 16:458-466 '61.
(MIRA 16:7)

(Boilers) (Gas, Natural)

SEMENOVA, N.K.; SEMENOV, L.V.; POPOV, V.M.

Technical and economic indices for the use of natural gas in open-
hearth process. Trudy IGI 16:467-477 '61. (MIRA 16:7)
(Open-hearth process) (Gas, Natural)

DAVIDOVA, I.V.; POPOV, V.M.

Reactivity of coals. Trudy IGI 19:174-177 '62.
(Coal—Testing)

(MIRA 16:4)

POPOV, V.M.

Pulsating character of the burning of milled peat in combustion chambers.
Trudy TGI 19:206-215 '62. (MIRA 16:3)
(Peat) (Combustion)

ISTOMIN, L.I.; SHUBNIKOV, A.K.; POPOV, V.M.; MOLYARCHUK, V.S.,
retsenzent; PARSHIKOV, V.A., retsenzent; KRISHTAL', L.I.,
red.; KHITROV, P.A., tekhn. red.

[Linear programming in the planning of the fuel and
electric-power supply for railroad transportation] Linei-
noe programmirovaniye v planirovaniy toplivo- i energosnab-
zheniya zheleznodorozhnogo transporta. Moskva, Transzhel-
dorizdat, 1963. 178 p. (MIRA 16:10)
(Linear programming) (Railroads--Management)

BARINOV, N.A., kand.tekhn.nauk; POPOV, V.M., inzh.; GOVOROV, Yu.A., inzh.

Practice in using the water-cooled roof of the DSN-1,5 furnace.
Mashinostroenie no.6:32-34 N-D '63. (MIRA 16:12)

MOSKALEV, A.N., kand.tekhn.nauk; FILATOV, N.V., kand.tekhn.nauk; POPOV, V.M.,
inzh.; FEDIN, I.A., inzh.

Oxygen lance piercing of 200-400mm openings in metal with a jet-
type torch. Svar.proizv. no.5:34 My '65.

(MIRA 18:6)

1. Filial instituta mekhaniki AN UkrSSR (for Moskalév).
2. Sibirskiy metallurgicheskiy institut (for Filatov, Popov, Fedin).

L 29890-66 EWT(1) G/H

ACC NR: AP6020108

SOURCE CODE: UR/0387/65/000/008/0074/0076

AUTHOR: Drumya, A. V.; Yevseyeva, K. G.; Kriventsov, Yu. M.; Podymova, I. S.; Popov, V. M.

ORG: Division of Physicotechnical and Mathematical Sciences, AN MoldSSR (Otdeleniye fiziko-tekhnicheskikh i matematicheskikh nauk AN MoldSSR)

TITLE: Carpathian earthquake of 10 January 1965

SOURCE: AN SSSR. Izvestiya. Fizika zemli, no. 8, 1965, 74-76

TOPIC TAGS: earthquake, seismology

ABSTRACT: On 10 January 1965 at approximately 0553 hours Moscow time the "Kishinev" (Moldavian SSR) seismic station recorded an earthquake with the epicenter near Fokshan in the Rumanian People's Republic. The earthquake was felt throughout Moldavia, a large part of eastern Rumania and the southwestern part of Odesskaya Oblast. Instrumental data are given in a table. The information given includes data on focal depth; the area of occurrence of the earthquake is a single square degree (26.20-26.80° E, 45.40-46.00° N. Foci in this area are at depths of 80-160 km, sometimes 200 km. The earthquake mentioned had been preceded by four smaller shocks in the preceding ten months. Most of this article is a description of the physical sensations and phenomena accompanying the earthquake which were observed in various towns and villages visited by the authors for interviewing the local inhabitants. On the basis of both instrumental data and these interviews the authors constructed a map of the isoseists for this earthquake. Orig. art. has: 1 figure and 2 tables. [JPRS]

SUB CODE: 08 / SUBM DATE: 06Feb65 / ORIG REF: 004

Card 1/1

UDC: 550.346

POPOV, V. M.

Plant Breeding

In the All-Union Academy of Agricultural Sciences., Korm. baza, 2, no. 10, 1951.

Monthly List of Russian Accessions, Library of Congress, May 1952, UNCLASSIFIED.

1. PCPOV, V. M.
2. USSR (600)
4. Alfalfa
7. Summer sowings of alfalfa in steppe and forest-steppe districts.
Dost. sel'khoz. no. 5, 1952

9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

85-07, V.M.),

Fruit Culture

New varieties of fruit and berry plants. Kolkm. proiz., 12, no. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 195⁴₂, Uncl.

COUNTRY : USSR
CATEGORY : Forestry. FOREST CULTURES.
ARK. JOUR. : Ref Zhur-Biologiya, No.1, 1959, No. 1510
AUTHOR : Voronin, I.V.; Pogov, V.H.
INST. :
TITLE : Economic Importance of Forest Belts in the Work
of the South-eastern Railway.
ORIG. PUB. : Izv. vyssh. uchebn. zavedeniy. Lesn. zh., 1958,
No.2, 34-40
ABSTRACT : No abstract

CARD: 1/1

PEROV, V. M.

"Run-off from Small Water-Collecting Headers (Data of the Bykovskan' Almasnyansk Run-off Stations)", Trudy Sverd. n.-i. g. i. l. observatorii, No 2 (3), 1948 (188-189)

POPOV, V. M.

255601 POPOV, V. M. Stok S. Melykh Vodosborov (Po Dannym Pridesnyanskoy Stokovoy Stantsii). Trudy Kievsk. Nauch-Issled. Gidrol. Observatorii UGMS USSR, Vpy, 4, 1949, s 139-74-
Gibliogr: 12 Nazv

SO: Letopis' Zhurnal' Nykh Statey, Vol. 34, Moskva, 1949.

POPOV, V. K.

"Data on the clinical study of the secretory and motor activity of the stomach in healthy and ill horses." Omsk State Veterinary Inst, Min Higher Education USSR. Omsk, 1956. (Dissertations for the Degree of Candidate in Veterinary Science)

So: Knizhaya letopis', No. 16, 1956

COUNTRY : USSR
 CATEGORY : Farm Animals. 2
 General Problems.
 ASS. JOUR. : RZhBiol., No. 3, 1959, No. 11968
 AUTHOR : Kozlov, V. M.
 INSTIT. : Kirghiz Scientific Research Institute of
 TITLE : The Correlation between the Nutritive
 Qualities of Sudan Grass and the Time of Its
 Being Used in the Green Conveyor.
 ORIG. PUB. : Byul. nauchno-tekhn. inform. Kirg. n.-i. in-t
 zhivotnovodstva i veterinarii, 1958, No 1(1),
 ABSTRACT : No abstract.

Card: 1/1
 *Animal Husbandry.
 39-41.

19 18
6 4E2c
Apparatus for hot coating of glass articles. S. V. Kutyov, M. I. Lashkov, and V. M. Kozlov. U.S.S.R. 1,63,870. May 20, 1967. For hot coating, e.g., enameling a chain conveyor is used for transporting the articles through tanks for chem. pretreatment, followed by coating. A vibrator is used to improve the quality of the coating. M. Homsh
24
008

KASPAR'YAN, A. -K., ~~POPOV~~, V. M.

Apparatus for bending samples during testing of inter-
crystalline corrosion. Zav. lab. 28 no.12:1522-1523 '62.
(MIRA 16:1)

1. Chelyabinskiy metallurgicheskiy zavod.

(Steel, Stainless--Corrosion)

GLADILIN, Anatoliy Nikolayevich, kand. tekhn. nauk, dots.;
SYROYEGIN, Aleksandr Aleksandrovich, kand. tekhn. nauk,
dots.; POPOV, Viktor Mikhaylovich, st. prepod.;
OVSYANNIKOVA, Z.G., red.

[Course of industrial training in technical schools for
mechanical engineering] Kurs proizvodstvennogo obucheniia
v mashinostroitel'nykh tekhnikumakh. Moskva, Vysshiaia shkola.
Pt.2. 1964. 309 p. (MIRA 18:4)

GLADILIN, Anatoliy Nikolayevich, kand. tekhn. nauk, dots.;
SYROYEGIN, Aleksandr Aleksandrovich, kand. tekhn.
nauk, dots.; POPOV, Viktor Mikhaylovich, st. prepod.

[Course of industrial training in mechanical engineering
schools] Kurs proizvodstvennogo obucheniia v mashino-
stroitel'nykh tekhnikumakh. Moskva, Vysshaia shkola.
Pt.1. [For workers in the professions; assembler and fit-
ter, repairman, universal turner] Dlia rabochikh professii;
slesar'-sborshchik, slesar'-remontnik, tokar'-universal.
1964. 435 p. (MIRA 17:6)

YAKUSHEV, F.M.; POPOV, V.M.

Improving the foam lifter of the Trofimov system. Transp. i khran.
nefti i nefteprod. no.12:23 '64. (MIRA 18:2)

1. Saratovskoye upravleniye GNS RSFSR.

OSINTSEV, A.S.; POPOV, V.M.; LIBERMAN, M.Kh.

Economic work in industrial enterprises should be in the center
of public attention. Izv. vys. ucheb. zav.; Chern. met. 2 no.2:
199-202 '65. (MIRA 18:2)

1335. EJECTOR DEVICE FOR PRE-DRYING MILLED PEAT. Tatishchev, S.V. and Popov, V.M. (ZaEkon. Toplivo (Fuel Econ.), Mar. 1961, 9013). An illustrated description and performance figures are given for a furnace burning lump peat on a chain grate, with provision for adding milled peat. It has been improved by a device for predrying the milled peat slightly with furnace gases, and by an air nozzle for spreading it over the grate. (L)

1. POPOV, V. M., Engr., SHABAROV, A. M., Engr., GUSHCHIN, A. I., Engr.

2. SSSR (600)

4. Furnaces

7. Experience in operating muffle burners in shaftmill furnaces.
Rab. energ. 2 No. 2, 1952

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

1. POFCV, V. M.
 2. USSR (600)
 4. Drilling and Boring machinery
 7. The work of a three-phase 380 volt electric drill on a 220 voltage. Rab. energ.
2 no. 12: 1952.
9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

ICICV, V. P.

Dust Explosion

Measures for preventing explosions of peat dust
at electric power stations. Elek. sta. 23 no.
2, 1952. Inzh.

Monthly List of Russian Accessions, Library
of Congress, April 1952. UNCLASSIFIED.

1953, No. 1.
A. I. Gushchin, A. D. Lutschik, V. M. Ponomov, and A. N. Slabavov, Opitnye dannye na elektrostaniatsii (Experience in burning Shredded Peat in Thermoelectric Power Plants), Gosenergoizdat.

The brochure explains advanced experience in effectively burning shredded peat in the Shatursk electric power plant named Lenin.

The brochure is intended for the operating personnel of electric power plants using peat as fuel.

SO: Sovetskaya knizhka (Soviet books), No. 163, 1953, Moscow, (U-6472)

Form V. 1.

AID P - 3388

Subject : USSR/Electricity
Card 1/1 Pub. 29 - 3/30
Author : Popov, V. M., Kand. Tech. Sci.
Title : Utilizing Bashkirya coal in electric power plants
Periodical : Energetik, 10, 6-9, 0 1955
Abstract : The author discusses the use of highly moist coals in electric power plants, particularly during winter. Bashkirya coal contains 52 to 54% of humidity and a high amount of small fractions, and is, therefore, subject to freezing, which greatly complicates its unloading from coal carts and its transportation within the power station. The author describes methods applied for the prevention of the above difficulties and arrangements for feeding fuel within the power station. Four drawings.
Institution : None
Submitted : No date